

Memorandum

To:

Jeff Montera, Project Manager

From:

Angela Frandsen, Quality Assurance Manager

Reviewed by:

Krista Lippoldt, Quality Assurance Coordinator for EPA

Region VIII RAC

Date:

October 8, 2002 it

Subject:

Libby CSS QAM checklist for 9/8/02 to 9/21/02

The following summarizes the QA activities that are being verified biweekly by the QAM for the Libby CSS. These activities are discussed in Section 7 of the CSS Final SAP. This memorandum covers the above-referenced two-week time period.

1. Field Team Orientation

(QAM will attach the signature page for each orientation)

Number of new field team members: 3 (M. Kissel, S. Robles, and K. Taylor)

Number of field team member orientations: 3. See attached signature list.

2. Field Form Completion Checks (IFFs and FSDSs)

(QAM will perform a 10% check on completed field forms sent to Helena for evidence that field team members are doing the required QC checks.)

Number of IFFs completed: 363 between 9/8 and 9/21/02

Number of IFFs received in Helena: 340 (IFFs shipped to Helena would include those from 9/6 to 9/19 because they are shipped on Fridays)

Number and percent of IFFs checked by the QAM for completeness and correctness: 39 (11.5%); 2 forms were found with problems (see attached list).

Corrective Action: List of IFF forms with problems sent to CSS Task Leader for corrective action - see attached list for details on corrective actions taken

Number and percent of IFFs checked by the CSS task leader for completion and correctness: <u>382, 100%</u>

Number of FSDSs completed: 621 between 9/8 and 9/21/02

Number of FSDSs received in Helena: 585 (FSDSs shipped to Helena would include those from 9/6 to 9/19 because they are shipped on Fridays)

Libby CSS QAM Checklist October 2, 2002 Page 2

Number and percent of FSDSs checked by the QAM for completeness and correctness: 62 (10.6%); no problems found.

Corrective Action Taken: None required.

Number and percent of FSDSs checked by the CSS task leader for completion and

correctness: <u>607</u>, <u>100</u>%

Comment:

3. Supplemental Verification of Vermiculite Product

(CSS field team leader to notify QAM by email if this occurs)

Number of occurrences of supplemental verification: None

Addresses of verifications: NA

4. Screening Field Checks

(CSS task leader will check 2% of all properties)

Total number of properties sampled up to 9/21/02: 2168

Total number and percent of screening field checks performed by task leader: 9 checks during this two week time period; 38 (1.8%) properties have been checked overall.

Comment: CSS TL is making progress in bringing the number of these checks above 2%.

5. Field Audits

Field audit conducted when and by whom? None.

6. Field QC Samples (July 28 through August 10, 2002)

Field Duplicates (1/20)

Number of field samples collected: <u>1364</u>

Number of duplicates collected: 71

Ratio: 1.04/20

Equipment Blanks (1/day)

Number of days soil sampling occurred: 12

Number of equipment blanks collected: 11

Ratio: <u>0.92/day</u>

Aqueous Rinsates (1/day, 3 different weeks throughout field season)

Number of days expected to collect rinsates during the time frame: 0

Number of rinsates collected: 0

Ratio: NA

Next time period rinsates expected to be collected: Week of October 28

Total number of rinsates collected since sampling began: 12

Comment: Starting September 16, the procedure for the collection of field duplicates was changed. Until this time, the field duplicate was taken from two aliquots out of the same mixing bowl, which is better described as a field split. EPA directed CDM to begin collecting duplicates as two distinct samples from the

same source areas. A letter, Modification Form (000057), and an email documenting this change are attached to this memorandum. Also, no corrective action deemed necessary at this time due to the one day that an equipment blank was not collected because it will be made up by taking two equipment blanks on another day.

Preparation Duplicates (1/20)

Number of samples prepared by the CDM laboratory: $\underline{732}$ dried only Number of preparation duplicates collected: $\underline{0}$

Ratio: <u>0/20</u>

Preparation Blanks (1/day)

Number of days that samples were prepared by the CDM laboratory: 10 Number of preparation blanks collected: 6 started

Ratio: 0.6/day

Comment: No preparation duplicates were collected and the preparation blank rate is low because of the transition to the new preparation procedure. Samples were also only dried (no sieving, splitting, etc.). Duplicates will be collected under the new procedure. It should also be noted that all samples that have been processed at the CDM Soils Laboratory will need to be reprocessed utilizing the new preparation procedure.

SEM/IR Splits (first 500 samples: 1/5 of IR $\leq 0.5\%$, 1/10 of IR > 0.5% and $\geq 1\%$)

Total number of samples ≤ 0.5%: None yet

Number and percent of SEM/IR splits: None yet

Total number of samples > 0.5% and $\ge 1\%$: None yet

Number and percent of SEM/IR splits: None vet

Comment: No laboratory yet under contract to perform soil analysis, either for IR or SEM. Anni Autio (laboratory coordinator) in charge of arranging this once laboratories are subcontracted.

7. Data Entry Checks (10% of Volpe data entry)

Number of data entries: None (no analytical results)

Number and percent of data entries checked: <u>None (no analytical results - data entry to be checked after analytical data are uploaded into database)</u>

Name of person(s) checking data entries: NA at this time

8. Data Validation

Number of samples validated and reviewed and by whom: None, no analytical results yet

Number of sample results rejected: <u>0 out of 0</u>

Libby CSS QAM Checklist October 2, 2002 Page 4

9. CDM Document Review

Documents issued to the client: <u>Draft SAP Addendum for the Drive in Theater</u> (9/20/02)

Which ones required Editorial Review and was review conducted? <u>Draft SAP, Yes</u> Which ones required Technical Review and was review conducted? <u>Draft SAP, Yes</u> Which ones required QA review and was review conducted? <u>Draft SAP, Yes</u>

Field Record of Deviation/Request for Modification forms completed and sent to EPA for approval: Ten forms were sent to EPA for approval: 000049 (requires the printed name of the author on each page of the logbook), 000050 (requires a north arrow on the figures completed on IFFs), 000051 (noted that estimates of primary source volumes and product percentages has not and will not be done because this information cannot be gathered accurately during reconnaissance), 000052 (noted that IFFs are now mailed to Volpe weekly instead of faxed daily), 000053 (sampling progress will be tracked by streets instead of by grid, quadrant, and section numbers because it is more efficient and the necessary information is not available from the county), 000054 (decontamination of soil sampling equipment will be done using a plastic instead of a metal brush and periodically cleaned with alconox), 000055 (grid/quadrant/section removed from FSDS), 000056 (changes to IFF due to other modifications), 000057 (change in field duplicate collection procedure), and 000058 (use of a supplemental IFF for properties that had been sampled under Phase I).

Overall Comments: None

cc: Jim Christiansen, EPA
Mary Goldade, EPA
Mark Raney, Volpe
Krista Lippoldt, CDM
Dee Warren, CDM
Dave Schroeder, CDM
Terry Keller, CDM
George DeLullo, CDM
Tim Wall, CDM

CSS Orientation Program

Name	Office	Date	Signature
Shown Oliveine	Denver	5/8/07	Shan Dina
Kent Hankinson	Atlanta	9/4/02	Went Hanking
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Janny (AMBORADO	Denver	9/4-02	Drug Jerhans
M.K. Kissel	Denver	9/09/07	W
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Kim Taylor	500	9/23/22	- fing - Says
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IFFs that need to be corrected:

Period: Paperwork received for weeks of 9/8/02 through 9/21/02

IFF BD#'s	IFF BD#'s 10% QC Check problem found	Corrective Action Taken	Date Corrected
BD-001611	BD-001611 and "Evidence of water damage?"	of physical damage?" Team member S. Olivera visited home to answer questions. Both were answered "NO"	10/8/2002
BD-001961	BD-001961 p. 2. No answer circled for "Years at Current Location"	CSS FTL circled 5-10 based on the note of 1995.	10/8/2002

Data Item		Vajue		N	otes
INDOOR ASSESSMENT		·			
Vermiculite Insulation Past or Present	Malls: Walls: Basement: Crawl Space:	Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown	Pay	Menual confirmation or absorbance or absorbance or absorbance or absorbance of the C.V. character of the C.V.	nce required to be served mobile ho encedical
Evidence of Physical Damage?	Yes	(10-802)			
Evidence of Water Damage?	Yes	ND 511-6-02	' ;		
OUTDOOR ASSESSMENT					
Libby Amphibole Sources Present	Garden: (Yard: Stockpiles: Other.	Yes No NA Yes No NA Yes No NA		Trace flak ngarlene arlenere længers.	rea form
Proximity to Other Properties with Potential Sources of Libby Amphiboles	Next door Within same Other: Unknown	block			
S Primary Structure IFF_V4.wpd		3 of Z			

CSS INFORMATION FIELD FORM (CANADA CONTRACTION FIELD FORM (CAN		NO.363 P.4/4
Data Item	Value	Notes .
OCCUPANT INFORMATION		
Number of Adults/Employees	5-15 16-20 21-30 >30	
Number of Children	0 1 2 3 4	
Years at Location	1 1-5 (5-10) 10-15 >15	1405
Was the residence/building remodeled?	If yet, When (years): <2 2-5 55	added poore u
	Where: Attic Living Areas Garage Basement Other:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Has resident/business purchased any Libby vermiculite materials from W.R. Grace in the past?	Yes No	
Has the property at this location been used for a for-profit enterprise of distributing, treating, storing, or disposing of Libby vermiculite?	Yes No	don't known
Are there any known areas of exposed vermiculite?	Yes No	
	If yes, Where: Celling Walls Floors Attic Other	- 1-57 ET-12 1.7 2 - 4-1
SS Primery Structure IFF_V4.wpd	Page 2 of 7	

CSS Task Leader Screening Field Checks (2% checks) for 9/8/02 - 9/21/02

BD Number	Address	Discrepancy and Corrective Action
BD-002042	332 Yellowtail	No discrepancies found
BD-002226	209 Pinewood	No discrepancies found
BD-002227	66 Pinewood	No discrepancies found
BD-002015	318 Louisiana	No discrepancies found
BD-002179	120 River Run Lane	One discrepancy - forced air instead of radiant. IFF corrected and redistributed.
BD-002275	746 E 5th St	No discrepancies found
BD-002307	152 Pioneer	Answer to vermiculite presence in the crawl space was answered before visual inspection occurred. Team was instructed to make sure they visually confirm the presence or absence before actually recording the answer on the IFF. The answer as circled turned out to be correct, so no change was made to the form.
BD-002030	160 Lower Quartz Creek Rd	No discrepancies found
BD-002344	181 Enders	No discrepancies found

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Occupant: ED		s (formerly	owned by Ph	one Nu	Imber: <u>293</u>	-8742	
Owner (if different	than occupant):	Mile +So	ndy Chapmall Ph	one Nu	imber, A/A	1;	╫—
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Screening Field Ch	eck Completed	by (2%) of forms):) octions	4			╂
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Square Footage	11			+	·	 	-
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Construction Mater	a!	Wood frame	Masonry/Stone			·	
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Basement		Yes	No	6	mul Sp	ace	
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28 North Last Chance Guich Helena, Montana 59601 tel: 405 495-1414 faz: 406 495-1025

September 13, 2002

Jim Christiansen
United States Environmental Protection Agency
999 18th Street
Denver, CO 80202

Subject:

Field Duplicate Sample Collection for the Libby Asbestos Site, Remedial Investigation (RI), Contaminant Screening Study (CSS)

Dear Mr. Christiansen:

Based on comments from Mary Goldade and an independent audit performed on the CSS during August of 2002, a change will be made in the collection procedure for field duplicate samples associated with the CSS. Duplicate samples previously collected as part of the CSS were collected by splitting a homogenized sample, and collected using the same sampling equipment. Beginning September 16, 2002, field duplicate samples will be collected using the following procedure:

A parent sample will be collected from up to 5 subsamples in a given land use area. The duplicate of this sample will be collected from the same number (i.e., 5) of randomly located subsamples in the same land use area. These samples will be independently collected with separate sampling equipment. The reason for this change is to better determine the variability of sample results in a given land use area. See Figure 1.

All previously (before September 16, 2002) duplicate samples will be referred to as field splits.

Very truly yours,

Dee Warren

CSS Task Leader

Camp Dresser & McKee Inc.

cc: Mary Goldade (EPA)

Jeff Montera (CDM)

Angela Frandsen (CDM)

Jim Christiansen September 12, 2002 Page 2

Figure 1 Field Duplicate Sample Collection from Land Use Areas

P	D	p
D	p D	D
P	D	p

p = Subsample locations of parent sample

D = Subsample locations of duplicate sample

Frandsen, Angela

From:

Montera, Jeff

Sent:

Tuesday, September 10, 2002 3:00 PM

To:

Warren, Dee; Schroeder, David; Wall, Timothy; MacDonald, Marianne; Knight, David; Keller, Terry; Autio, Anni; Frandsen,

Angela; Cook, Thomas

Subject:

CSS Field Duplicate Samples

A little background for those of you have not been involved in recent discussions regarding field duplicate samples.

To date CSS sampling teams have been collecting field duplicates by homogenizing 3-5 subsamples, from a specific use area (i.e., garden, front yard, etc.), and taking two samples from that mix. During the independent field audit Mary Goldade brought up that she did not want that to happen anymore, but instead wanted colocated samples. Co-located samples are essentially two separate samples (both made up of composite samples) which are from the same use area. Dee brought up a good point that this will effect data validation, which incorporates field blanks. I had Krista Lippoldt speak with Mary regarding the issue (see below).

As far as I can tell this will effect a few things:

- 1. Field teams will have to start on a particular date taking co-located samples vs. duplicates.
- 2. The database (V2) will have to reflect that we have two types of samples. It will be important, for data validation purposes, to be able to identify the field duplicates vs. the co-located samples.
- 3. eLastic same thing, we will need to be able to identify field duplicates vs. co-located samples.
- 4. Mod form? not sure on this one. The SAP says "co-located" samples. We would, however, need to document somewhere of the change.

Jeff

----Original Message-----

From:

Lippoldt, Krista

Montera, Jeff

Sent:

Tuesday, September 10, 2002 2:05 PM

To:

Subject:

Jeff -

I spoke with Mary Goldade this afternoon. Some changes were discussed regarding field duplicates for the Libby CSS. First of all, she wants field duplicates to be collected as separate samples, colocated in the same area but not the same exact location instead of collecting duplicates as aliquots out of the same mixing bowl. For example, one sample will be collected first from a location and the duplicate may be collected from the same source area (e.g., the garden area) but six inches away. She believes that the preparation duplicates will provide us with information on the homogeneity of the mixed sample and the "new" duplicates will tell us how variable the "area" is. This should be implemented starting Monday, September 16, 2002. Along with this, the field duplicates that have been and will (until Monday) be collected from the same mixing bowl should be called field splits instead of duplicates and the ones collected after Monday will be called field duplicates. Please change this in all databases. There have been no changes to how the samples will be used for validation whether identified as splits or duplicates. If any changes are made, they will be made at a later date after results have been looked at for the two types of "duplicates."

Krista



Record of Deviation/ Request for Modification to the

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ibby Sampling and Quality Assurance Project Plan
Field Activities

Instructions to Requester; Fax to contacts at bottom of form for review and approval. File approved copy with Data Manager and fax copy to SRC.

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Scenario No. (circle one):	1 2 3 4	NA		
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Field Logbook and page num Reason for Deviation: Sample Collection Lim Christianse	•			u
Potential Implications of this I	Deviation:			
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rality Assurance Review and (Quality Assurance Co	ordinator or des	ignate)	A Date:	9/13/02
Approved By: (USEPA OSC or SSC)		itle: 9/17/02	Date:	9/17/02

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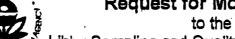
CDM Federal Frograms Corporation

Quality Control Review Sheet

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Libby Sampling and Quality Assurance Project Plan Field Activities

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Removal Action (approved 7/00) CSS (approval 5/02)	
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Requester. Dee Warren Title: CSS Took Leader Company: CDM Date: 9-18-02	— .
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Description of Designations	
Description of Deviation:	
USE a Supplemental IFF for properties that had background inform Beld forms completed as part of phose dust sampling program	nce
	-
Field Logbook and page number deviation is documented on: 100091 page 117-118	
Reason for Deviation:	
Complete IFFs are not needed for homes where a backproud 11	F
was completed under phase!	_
Potential Implications of this Deviation:	1
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Record of Deviation/ Request for Modification

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to the

Libby Sampling and Quality Assurance Project Plan
Field Activities

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending) Phase I (approved 4/00) Phase II (approved 2/01) Removal Action (approved 7/00) CSS (approval 5/02)
Scenario No. (circle one): 1 2 3 4 NA
Requester: Dee Warren Company: COM Date: 9/9/02
Description of Deviation: Modify FSDS to remove requirement of grid/quadront/section
Field Logbook and page number deviation is documented on: 100091 pg 106-107 Reason for Deviation: Grid [quadrant] Section not being used
Potential Implications of this Deviation:
Duration of Deviation (circle one): Temporary Date(s): Resident address(es):
Permanent (complete Proposed Modification Section)
Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers (SQAPP when applicable): SPE OTTOCKED COPY of COSPONE Page
Technical Review: Date: 9/10/02 (Volpe Project Medager or designate) Talifty Assurance Review and Approval: Date: 9/10/07
Approved By: (USEPA OCC or SSC) Title: RPM Date: 9/17/02



Record of Deviation/ Request for Modification

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to the

Libby Sampling and Quality Assurance Project Plan Field Activities

Instructions to Requester: Fax to contacts at bottom of form for review and approval.

File approved copy with Data Manager and fax copy to SRC.

Project QAPP (circle one):	PE Study Part a (approved Phase I (approved 4/00) Removal Action (approved	Phase II (approved 2/1	01)
Scenario No. (circle one):	1 2 3 4 NA		
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Field Logbook and page num Reason for Deviation: Changes to	nber deviation is documente	· · · · · · · · · · · · · · · · · · ·	•
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Proposed Modification to SQ/ SQAPP when applicable): See Copy of Cop	APP (attach additional sheet book pages	ts if necessary, state sec	tion and page numbers
Technical Review. (Volpe Project Manag	er or designate)	Date:	9/10/02
	oordinator or designate)	PM Date:	9/17/02

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Record of Deviation/ Request for Modification to the

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Libby Sampling and Quality Assurance Project Plan
Field Activities

Instructions to Requester: Fax to contacts at bottom of form for review and approval. File approved copy with Data Manager and fax copy to SRC.

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	Removal Action	a (approved 7/00)	CSS (approval 5/02)	,
Scenario No. (circle one):	1 2 3 4	(NA)		
Requester. Dec Wo	rmen		Title: <u>CSS 7as4</u> Date: <u>9-13-0</u>	s leader
Description of Deviation: Duplicate Sample	callection.			
Field Logbook and page num Reason for Deviation: Sample Collection Lin Christianse	•		· •	
Potential Implications of this	Deviation:			
Duration of Deviation (circle of Temporary Date(single)				
Permanent (comple	ete Proposed Mo	odification Section)		
Proposed Modification to SQ/ SQAPP when applicable): Field duplicate sample SOP CDM-UBBY OS				·
Technical Review:	er or designate)	w	Date: 9//5/	<u>02</u>
Jality Assurance Review an (Quality Assurance Co		signate)	A Date: 9/1	3/02
Approved By: (USEPA OSC or SSC)		itle: 9/17/0	Z Date: 9/1	1/02

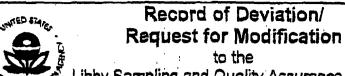
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Record of Deviation/ Request for Modification to the

libby Sampling and Quality Assurance Project Plan Field Activities

Project QAPP (circle one):	PE Study Part			•	•	val pending)
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Company: <u>CDM</u>				ate:	·3-04	
Proceedation of Parliations -						
Description of Deviation:	will he to	ties o	nlarke +	arush a	nd non	or to wels
Decontamination u maybe used to day	Poulament.	4/50 P	OULOMENT	+ will 1	windica	The be of
Malald wirmunder	•	•	* *			7
Field Logbook and page nul	mber deviation is	documente	id on:			
Reason for Deviation; Metal hrushes	home und	1	corntchine	n Pallin	mont. P	Vartic
Metal brushes brushes will rem	AVE any as	bertos l	out all &	ouinne	27 will	also be c
using alconox.	4 1					
Potential Implications of this	Deviation:				•	
NONE						
Duration of Deviation (circle	one):					
Temporary Date(s):					
Resid	ent address(es):					_
Permanent) (comp	olete Proposed M	odification (Section)			
(1 Ottline)	; ;	MANIAMENT -	Journa	٠.		
Proposed Modification to SC	JAPP (attach aḋc	ditional shee	ets if necessa	ıry; state sed	tion and page	e numbers of
SOAPP when applicable):	1- In heat			•		
See attached copy	A logue	paye				
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and the last of th	1 mm	511			0 /0 /00	
rechnical Review:	ger or designate)			Date: _	1/7/-	_
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uality Assurance Review a	Anamusi	1//	1	nata.	9/9/07	7 .
Quality Assurance C	no Apploval. Coordinator or de	sianate)		Date: _		
	ristianse :	.,		•	. 1 /	
Approved By:		Title: R	PM	Date;	9/17/02	,
(USEPA OFC or SSC		i ilio,		Pers, _	-1-1-	
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to the
Libby Sampling and Quality Assurance Project Plan
Field Activities

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Project QAPP (circle one):	PF Study I	: Part a /annrov	ed 6/00) h /an	provel pending)	c (approval pend
i integrate it i fallole ofie).				(approved 2/01)	- /
,				(approval 5/02)	
•	LOUIDAR!	reten (approv	Ed 1100) (033	Carringal 2/02/1	
Canadia Na (zizela aza):	4 2 2	A AIA			
Scenario No. (circle one):	, 1 2 3	.4 (1)			,
Requester Dee Warr	Yn		₹ 7:	He CSS TA	ok londa
	(1)		<i>!!</i>	LIE. 100 10	SK Leade
Company:CDM_		<u> </u>	U;	ate:	<u> </u>
Danadallan of Dankellan		:		•	
Description of Deviation:	not and	l sertion r	number	will not h	e used.
Use of grid quadre Tracking progress	11/10	ha done	SHIPP!	5.	
				_	
Field Logbook and page num	nber deviation	on is documer	nted on: 1000	091 0999	· . ·
Reason for Deviation:		i		-	
Current parcel in include all proper	tormation	provided	by the ci	ty and coun	the dues not
a d'indi	A DESTRUCTION	17 more	HOLFAT TE	WOLK ON O	STATET DOS
Potential implications of this	Davistian	. 1			
Potential Implications of this	Deviation:	: • • •			
		· - · · · · · · · · · · · · · · · · · ·			
Duration of Deviation (circle o	one):		••		
Temporary Date(s					· · · · · · · · · · · · · · · · · · ·
Reside	ent address((es):		. ,	·
Permanent (compl	eta Proposa	ed Modification	n Section)		
Citization (Continue	cic i Inbosi				
Proposed Modification to SQ	APP (attach	additional sh	eets if necessa	rv: state section	and page numbe
SQAPP when applicable):		2			
See attached copy	NF 109	book pag	ze	``````````````````````````````````````	· · · · · · · · · · · · · · · · · · ·
·					
		· ·			
Technical Review:		Jours		Date: 9/	9/02
	er or design	nate)	^		-
	•		\// · ^ ^		•
Quality Assurance Review ar	nd Approval	,	VL / H		9/07.
(Quality Assurance Co			1 ~ N	Pais,	
	instices	-	•	,	,
` `		!	RPM	Date: 9/	17/07
Approved By:		Title:		Date:	
* ID-compared and Settlement IDDV 1700	7 Alebani CD A SSee a d	Private Classica dans		· · · · · · · · · · · · · · · · · · ·	, (

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Record of Deviation/ Request for Modification

to the

Libby Sampling and Quality Assurance Project Plan Field Activities

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)
Phase I (approved 4/00) Phase II (approved 2/01)
Removal Action (approved 7/00) CSS (approval 5/02)
Scenario No. (circle one): 1 2 3 4 NA
Requester. Dee Warren Title: CSS Task Leader
Requester: Dee Warren Company: CDM Title: CSS Task Leader Date: 9/5/02
Date. 770708
Description of Deviation: IFFs are mailed to Volpe weekly instead of forced daily
Field Logbook and page number deviation is documented on: 10009/ pg 98 Reason for Deviation;
Number of pages to fax everyday can not be done efficiently.
Detection because of this Deviction.
Potential Implications of this Deviation: 1 Ffs are received up to seven days after they are completed.
1.75 Gr. Title apie St. Title apie St. Title apie to the total
Duration of Deviation (circle one):
Temporary Date(s):
Permanent (complete Proposed Modification Section)
Descend Madification to SOADD (attack additional about if accounts attack and accounts
Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers SQAPP when applicable):
See attached copy of logbook page
Technical Review: Date: 7/9/02 (Volpe Project Manager or designate)
MA alata
uality Assurance Review and Approval: Date: Date:
(Quality Assurance Coordinator or designate)
Ji- Christiansa
Approved By: Title: RPM Date: 9/17/07
(USEPA QSC or SSC) C:\Documents and Sattings\(\text{libby}\).\LiBBY02\Dasktop\SOAFPmodformr_Fleidv3 doc



Record of Deviation/ Request for Modification

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to the
Libby Sampling and Quality Assurance Project Plan
Field Activities

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Project QAPP (circle one):	PE Study Part a (appr Phase I (approved 4/0 Removal Action (appro	00) Phase II (app		l pending)
Scenario No. (circle one):	1 2 3 4 NA			
Requester: Dec Warre	<u>'n</u>	Title: Date:	CSS Tark Lead	ler
Description of Deviation: Determination of pri descriped in Section	man source val	umer and pro	duct percentag	e ar will no;
Field Logbook and page num Reason for Deviation: Field observations accurate, as 875	nber deviation is docum	ented on: <u>10009/</u>	pg 98 2 and sampling	
Potential Implications of this Volume estimates to will any he gress est	Deviation: rremoval deter			metion
Ouration of Deviation (circle of Temporary Date(s)	one);			
Permanent (compi	ete Proposed Modificat	ion Section)		Ì
Proposed Modification to SQ. SQAPP when applicable): See OHAChed Copy	A		tate section and page r	numbers of
echnical Review:(Valpe Project Manage	er or designate)		Date: 9/9/02	
	nd Approval:	- 4	Date: 9/9/02	
Approved By: (USEPA OSC of SSC)	Title:	RPM	Date: 9/17 /02	

6/19/02

Record of Deviation/ Request for Modification

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to the
Libby Sampling and Quality Assurance Project Plan
Field Activities

	1	•		••
Project QAPP (circle one):	Phase I (approv	red 4/00) Phase		c (approval pending
	Removal Action	(approved 7/00)	SS (approval 5/02)	
Scenario No. (circle one):	1 2 3 4	(A)		
Requester: <u>Dee Warrer</u> Company: <u>CDM</u>	7		Title: <u>CSS 7as</u>	Leader
Description of Deviation: Require North arm	ow on figur	res complete	don 1 15.	
Field Logbook and page nun Reason for Deviation: To require north				
Potential Implications of this	Deviation:			
Duration of Deviation (circle Temporary Date(s Reside	, i			
Permanent (comp	lete Proposed Mo	dification Section)		
Proposed Modification to SQ SQAPP when applicable): See attached copy			ssary; state section a	and page numbers
	<u> </u>			
rechnical Review. (Volpe Project Managonality Assurance Review are (Quality Assurance C	nd Approval:	ignate)	Date: 9	9/02
	r.stianse-	tle: RPM	Date:9/	17/02



Record of Deviation/ Request for Modification

Libby Sampling and Quality Assurance Project Plan

File approved copy with Data Manager and fax copy to SRC.

Field Activities instructions to Requester: Fax to contacts at bottom of form for review and approval.

Project QAPP (circle one):	PE Study Part a (approv Phase I (approved 4/00) Removal Action (approve	Phase II (approve	
Scenario No. (circle one):	1 2 3 4 (NA)		
Requester: Dec War Company: Com	ren	Title: CS	S Took Leader 9-5-02
Description of Deviation: Kenuire printer rome Copied for placement is	of author on each	h page of the	losbook that 15
Field Logbook and page num Reason for Deviation: Each Copied nad	nber deviation is document	nted on: 100091 pa	pages are
Potential Implications of this None		e destruired us s	Z SIPHOFAIC CON IN
Duration of Deviation (circle Temporary Date(s			
Permanent (comp	lete Proposed Modification	n Section)	
Proposed Modification to SQ SQAPP when applicable): See alloched copy of	1 1 10	eets if necessary; state	section and page numbers of
			,

Technical Review:

uality Assurance Review and Approval;

(Quality Assurance Coordinator or designate)

Approved By: (USEPA OSC or SSC)

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